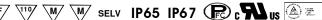






- Built-in active PFC function
- High efficiency up to 95%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Cooling by free air convection
- · OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- · Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet location













HLG-320H-12 A Blank: IP67 rated. Cable for I/O connection.

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B: IP67 rated. Constant current level adjustable through output cable with 1~10 Vdc or PWM signal or resistance.

C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal

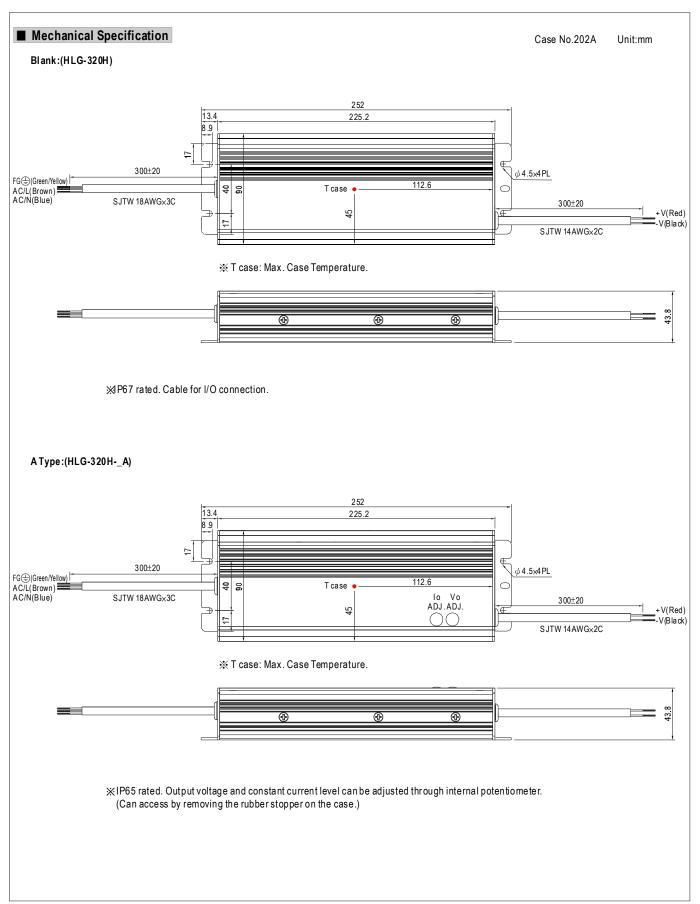
 \mbox{D} (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details .

SPECIFICATION

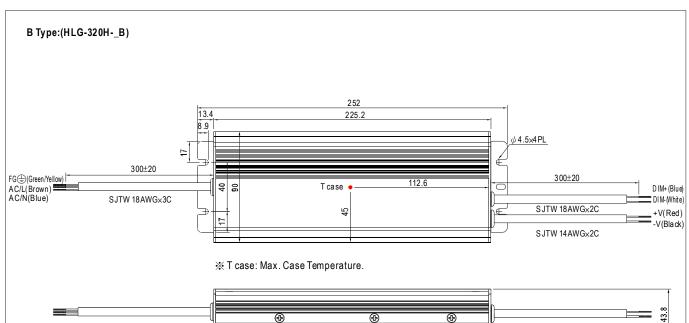
MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24 V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A				
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W				
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
	, ,													
NITDIIT	VOLTAGE ADJ. RANGE Note.6			17 ~ 22V	21 ~ 26 V	26 ~ 32V	32 ~ 39V	38 ~ 45 V	43 ~ 52 V	49 ~ 58V				
DUTPUT	CURRENT ADJ. RANGE			otentiom eter A			4.5 0.04	00 7054	0.05 0.74	0.07. 5.00				
			9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A		3.8 ~ 7.65A	3.35~6.7A	2.97 ~ 5.9				
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION		±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	,	,	500ms, 80ms at full load 230VAC / 115VAC											
	HOLD UP TIME (Typ.)	5ms at full load 230 VAC /11 5VAC												
	VOLTAGE RANGE Note.5	90 ~ 305 VAC	127 ~ 431	IVDC										
	FREQUENCY RANGE	47~63Hz												
	POWER FACTOR (Typ.)	PF>0.98/115V	AC, PF>0.95/2	230VAC, PF>0	.94/277VAC at	full load (Pleas	e refer to "Pov	ver Factor Char	racteristic" curv	re)				
NPUT	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%				
•.	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%				
	AC CURRENT (Typ.)	3.5A/115VAC 1.65A/230VAC 1.45A/277VAC												
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1010 / us measured at 50% peak) at 230VAC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
	OVER CURRENT Note.4	95~108%												
	OVER CORRENT Note.4	Protection type : Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.												
ROTECTION	OVER VOLTAGE	14 ~ 17V	17.5~21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37 V	40~46V	46.5~53V	53.5~60V	59 ~ 65V				
		Protection typ	e : Shut down	and latch off o/	p voltage, re-p	ower on to reco	over							
		100°C ±10°C (RTH2)												
	OVER TEMPERATURE	Protection type: Shut down and latch off o/p voltage, re-power on to recover												
	WORKING TEMP.	-40~+70°C (I	-40 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	,	non-condensir	,										
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40~+80°C,		<u> </u>										
	TEMP. COEFFICIENT	±0.03%/℃ (0												
	VIBRATION	,		le period for 3	70min each al	ong X, Y, Z axe	•							
	VIDIOTION	,				0 , ,		HI G-320H C to	vpe),IP65 or IP	67 161347-				
	SAFETYSTANDARDS Note.7	,		7.0-00, ENO 10-	77-1, ENO 10-7	2-10 ma opena	citt (oxcopt for	1120-02011-01	ypc),ii 00 0i ii	01,001041-				
	WITHSTAND VOLTAGE	J61347-2-13 approved I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC												
AFETY&														
MC	ISOLATION RESISTANCE EMC EMISSION	· · · · · · · · · · · · · · · · · · ·		00M Ohms / 50			J 0 / > F00/	11) - ENC40	00.0.0					
			-			N61000-3-2 C								
	EMC IMMUNITY	· ·				5024, light ind	ustry level (sur	ge 4KV), criter	тав					
	MTBF	157.1K hrs mi		3K-217F (25°C))									
THERS	DIMENSION	252*90*43.8m		_										
	PACKING	• •	16Kg/0.92CUF			1.000								
IOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type and C type only. 7. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.													

- Salety and EMC design refer to EMSUSSE1, Subject CNS15233, GB7000.1, PCC part its.
 Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
 The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
 Refer to warranty statement.

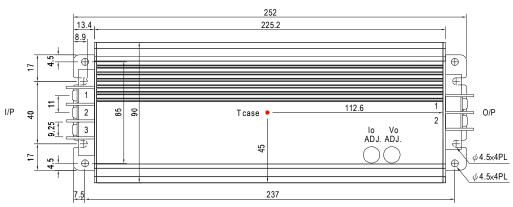




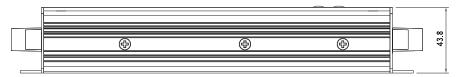




C Type:(HLG-320H-_C)



※ T case: Max. Case Temperature.



XOutput voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

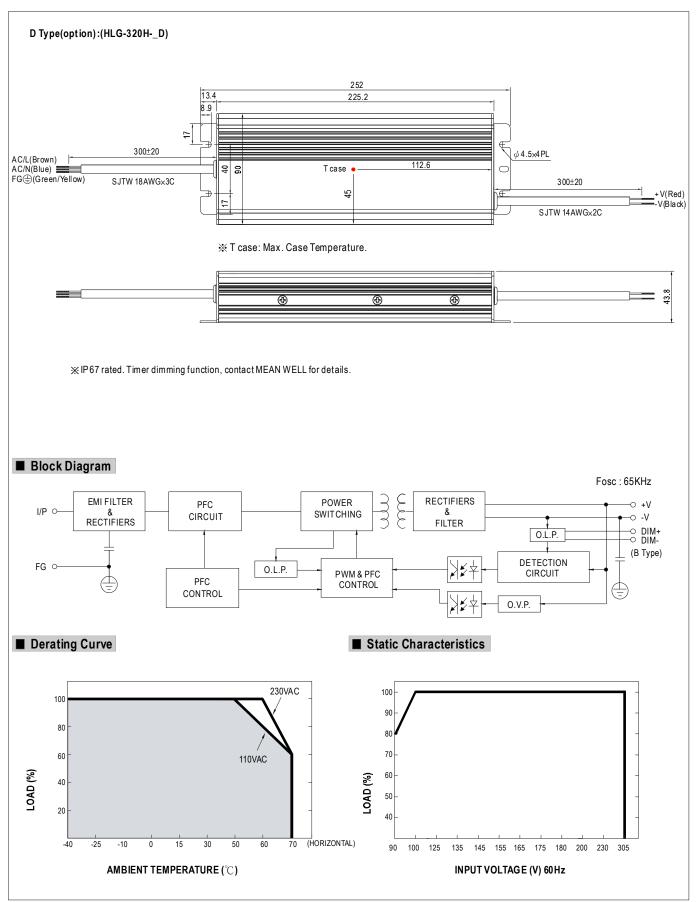
AC Input Terminal Pin No. Assignment

710 Input Torrilliari III									
Pin No.	Assignment								
1	FG ±								
2	AC/L								
3	AC/N								

DC Output Terminal Pin No. Assignment

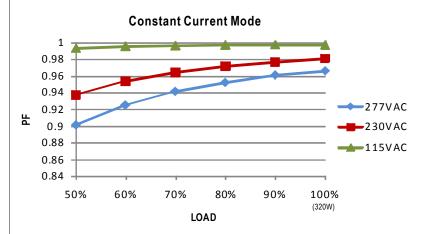
Pin No.	Assignment
1	+ V
2	-V





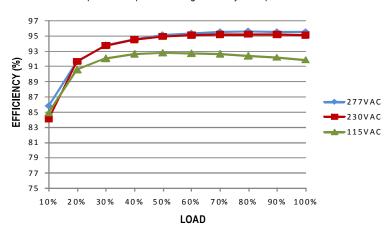


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

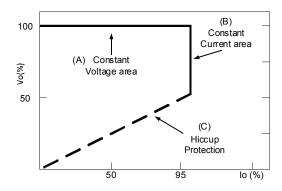


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

Atypical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



FG⊕(Green/Yellow) AC/I/(Brown) AC/N(Blue) HLG-320H DIM+(Blue) +V(Red) -V(Black)

- ※ Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω/N	30K Ω/N	40K Ω/N	50K Ω/N	60K Ω/N	70KΩ/N	80KΩ <i>I</i> N	90KΩ/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%
40/41 1 6 6 6 6 4 4 4 4 7 1 1												

※ 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10 V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

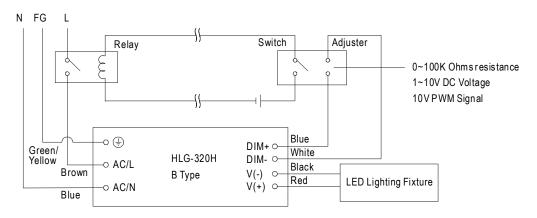
× 10V PWM signal for output current adjustment (Typical): Frequency range: 100 HZ ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

XUsing the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

*Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture.

- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2.The LED lighting fixture can be turned ON/OFF by the switch.

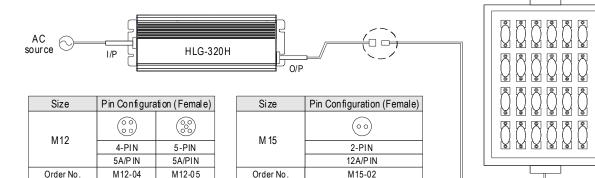
LED Lamp



■ WATERPROOF CONNECTION

Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



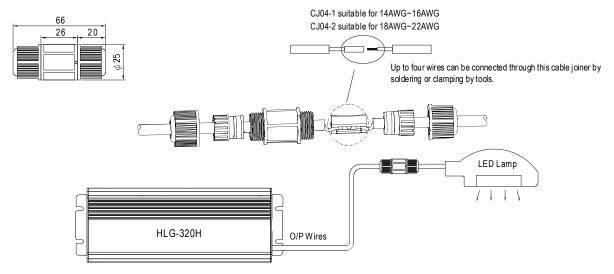
Suitable Current

O Cable Joiner

Suitable Current

10A max

10A max



12A max

«CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL or der No.: CJ04-1, CJ04-2.

\bigcirc Junction Box(Option)

